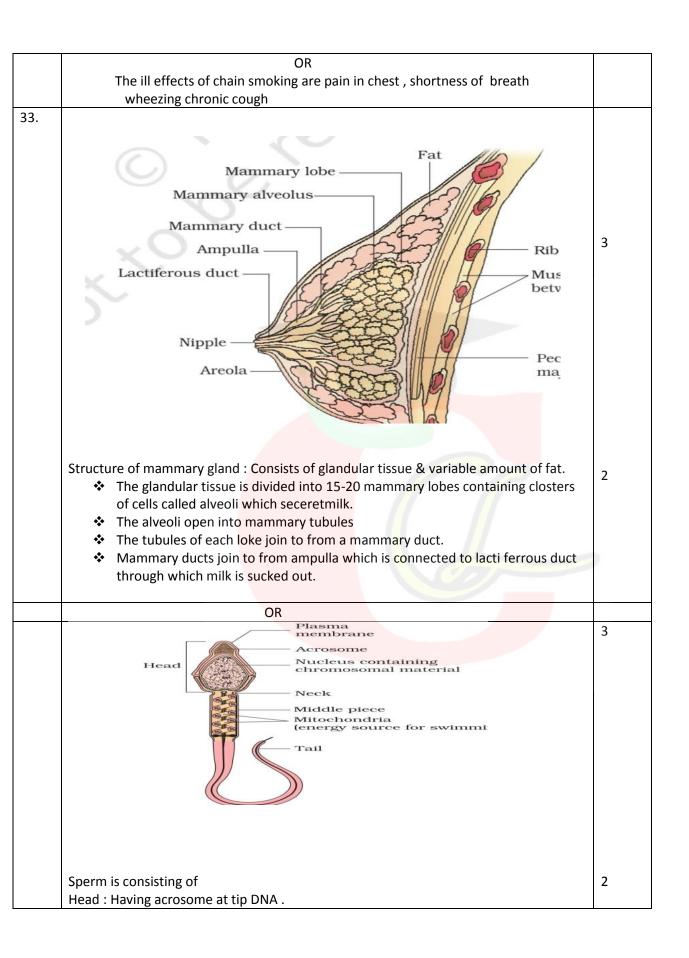
	Key for set D BIOLOGY 12	
Sr.No	Value Point	Marks
1.	A) Parthenium	1
2.	D) Scutellum	1
3.	B) Leydig cells	1
4.	A) ZIFT and IUT	1
5.	B) 50%	1
6.	A) 50%	1
7.	A) Leading strand	1
8.	A) Bacterium	1
9.	A) Sedimentary Rocks	1
10.	D) Convergent Evolution	1
11.	C) Warm and moist environment	1
12.	D) Natality	1
13.	B) Resource partitioning	1
14.	C) Eichhorniacrassipes	1
15.	B)	1
16.	В	1
17.	C)	1
18.	A)	1
	Section-B	
19.	Virus infected cells secrete proteins called interferons.	1
	Interferons protect non-infeeted cells from further viral infection.	1
20.	(a) Lactobacillus	1
	(b) Acetobacteracete	1
21.	The living organisms products which check the growth of other living organisms.	1
	<u>Penicilliumnotatum</u>	1
22.	Genetic engineering approval committee	1
	Objectives: Make decisions regarding the validity of GM research and safety of	1
	introducing GM organisms for public services.	
23.	Every organism has only two forms of a gene i.e only two allelic forms are presents in	1
	human being because chrom <mark>osomes exists as ho</mark> mologous pairs th <mark>er</mark> e forethe genes	
	will also be in pairs, but it is not essential that a gene exists only in two forms in a	
	population, so the different fo <mark>rms of a gene can e</mark> xist in population only.	
	For e.g The genes for blood group are A,B and O.	1
	OR	
	A cross which is used to access the genotype of an individual in it the individual to be	1
	tested is crossed with homozygous recessive parent if the progeny are showing only	
	dominant feature then the parent(which was tested) is homozygous, if the progeny	
	are showing both dominant and recessive feature it means the parent is homozygous.	1
24.	Euchromatin: It is lightly stained and transcriptionally active.	1
	Heterochromatin: It is darkly stained and transcriptionally in active.	1
25.	 Synthesis of antibiotic resistant pathogens due to continuous use of 	1
	antibiotics.	
	Excess use of Herbicides pesticides has resulted in selection of resistant	1
	varities in which lesser time.	

	Section-C	
26.	Auto gamy: Transfer of pollen grains from anther to stigma of the same flower.	1
	Geitonogamy: Transfer of pollen grain from anther to stigma of the other flower on	1
	the same plant	
	Xenogamy: Transfer of pollen grain from anther to stigma of the other flower on the	1
	different plant.	
	OR	
	Pollen release and stigma receptivity are not synchronized	1
	2) Anther and stigma are placed at different positions	1
	3) Self incompatibility	1
	4) Unisexual flowers	1
27.	Sex determination in Drosophila Males are hetero gametic.	1
	The sex of the offspring is decided by the type of contributed chromosome i.e if X type	1
	of sperms fertilizes egg then the offspring will be male, if Y type of sperm is fertilizing	1
	the egg then offspring will be male.	
	OR	
	The characters/sex linked disease whose responsible genes are present an sex	1
	chromosome are called sex linked diseases. The genotype of Turner's syndrome is XO	
	It can be caused by normal egg i.e without sex chromosome(due to non disjunction of	1
	sex chromosome).	
	Symptoms : Sterile females ovaries rudlimentary	1
	Lack of secondary sexual characters.	
28.	1. Selectable marker sites: Sites in the cloning vector which are used to	1
	distinguish between Transformants and non-transformants.	
	2. Cloning sites: Sites at which the desired DNA can be inserted so that multiple	1
	copies can be obtained along with replication of the core DNA.	
	3. Orisite: The site in the vector from where the origin of replication takes place,	1
	it is essential as the purpose of vector is to generate multiple copies of the	
20	desired DNA.	
29.	Grazing food chain starts with plants	4.5
	The primary consumer are herbivore	1.5
	Detritus food chain starts with dead organic matter	1 -
20	The primary consumer are decompsers	1.5
30.	Ex situ means of conservation can be done by zoo, botanical gardens wildlife safari	1
	parks cryoprosoryation techniques	1
	cryopreservation techniques, seed banks.	1
21		1
31.	The blue coloured contain in the figure is amniotic fluid The developing feetus is enclosed in uterus.	
	2. The developing foetus is enclosed in uterus The shown is banned because it is migured for detecting the say of feetus.	1
	3. The shown is banned because it is misused for detecting the sex of foetus OR	2
	The prime aim of this technique is to find out chromosomal abnormality	
32.	The cause of his suffering is his chain smoking nature	1
	Siddharth became chain smoker due to peer pressure	1
	3. The symptoms of his sufferings are pain in chest, shortness of breath	2
		I

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	Neck : Having centriole .	
	Middle : Having mitochondria	
	Piece	
34.	Replication of DNA	
5 1.	Requirements:	1
	❖ DNA polymerase	
	Deoxy ribose nucleo tide triphosphates which acts as the energy	1
	source and raw material for DNA replication.	
	Formation of replication fork.	1
	Continuous and discontinuous synthesis.	1
	Role of DNA ligase is to attachtheokazakifragments .	1
	OR	
	DNA	1
	Promoter Sigma factor Initiation Sigma factor Introduction Terminator	1
	Elongation 3' 5' 3' 3'	1
	Termination RNA Polymerase Rho factor	
25	Postriction anzuma	1
35.	Restriction enzyme Cloning vector	1
35.	Cloning vector	1
35.	Cloning vector Competent host DNA is hyotoophillic it cannot pass through cell membranges so , in	1
35.	Cloning vector Competent host DNA is hyotoophillic it cannot pass through cell membranges so , in order to take bacteria to take up the plasmid , the cell is made competeit by :	1
35.	Cloning vector Competent host DNA is hyotoophillic it cannot pass through cell membranges so , in order to take bacteria to take up the plasmid , the cell is made competeit by : Treating specific concentraltion of a divalant cation like a which in creases the	1
35.	Cloning vector Competent host DNA is hyotoophillic it cannot pass through cell membranges so , in order to take bacteria to take up the plasmid , the cell is made competeit by : Treating specific concentraltion of a divalant cation like a which in creases the efficiency with which DNA enters.	1 1 1
35.	Cloning vector Competent host DNA is hyotoophillic it cannot pass through cell membranges so , in order to take bacteria to take up the plasmid , the cell is made competeit by : Treating specific concentraltion of a divalant cation like a which in creases the	1

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